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New Grant Programs Announced

The National Library of Medicine announces two new grant programs designed to foster the careers of investigators who are working in the health-related information sciences.

The NLM New Investigator Award provides funding for researchers who are, for the first time, seeking support for research projects of their own design. This program is intended to bridge the transition from pre-doctoral and post-doctoral training status to that of an independent and productive research scientist.

The NLM Research Career Development Award is a full-time salary grant for a single support period of five years. The purpose of this program is to enhance the research capability of individuals in the formative stages of their careers who have demonstrated outstanding potential for research contributions to the health-related information sciences.

Prospective applicants may write or call the Office of Extramural Programs for additional information and application forms. Inquiries should be directed to:

Dorothy Stroup, Ph.D.
Program Officer
Division of Biomedical Information Support
Extramural Programs
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014
Telephone: 301-496-4221

Changes in Reference Services

The organization of NLM's Reference Services Division (RSD) has undergone several recent changes in an effort to integrate like functions and improve services.

Reference Section

The Reference Section of RSD has been reorganized into two units, a Public Services Unit and a Specialized Services Unit. The Public Services Unit provides reference services both for on-site users of NLM and in response to telephone and mail queries. Included in this function are online bibliographic search services for patrons in the NLM reading room.

The Specialized Services Unit prepares specialized bibliographies and performs a variety of computer search services. The unit is also responsible for the selection of topics for printed Literature Searches and the production and distribution of these searches. (Note: see two new Literature Searches announced elsewhere in this issue.)

A new chief has been named to head the reorganized Reference Section: Phyllis S. Mirsky (see story, page 2). Charlotte Kenton, formerly head of the Search Section,

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NATIONAL LIBRARY OF MEDICINE NEWS

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Bibliographic Services Division, has been appointed to head the Specialized Services Unit. The Search Section was abolished with the establishment of the new unit. No head has yet been named for the Public Services Unit.

This reorganization recognizes that the functions of the Search Section were, in fact, reference functions. Miss Kenton and her staff of search specialists will strengthen RSD's ability to provide a wide range of high quality reference services.

Circulation and Control

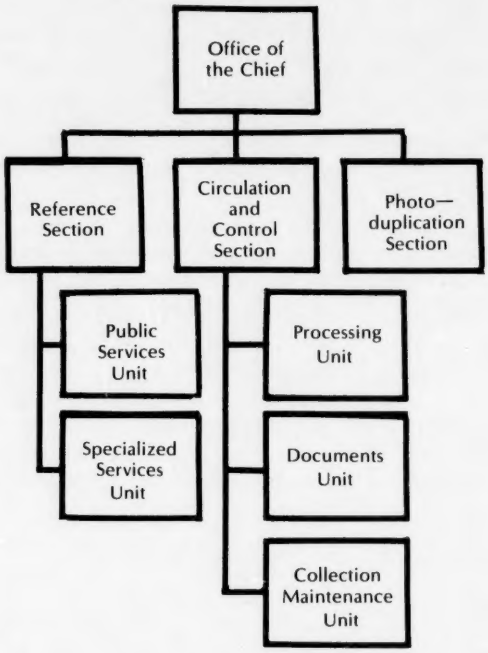
The Loan and Stack Section of RSD has been renamed the Circulation and Control Section. This section now has three units: Processing, Documents, and Collection Maintenance.

The Processing Unit is responsible for processing interlibrary loan and readers' requests for materials in the collection. This includes all aspects of receipt, identification, bibliographic and shelf searching, retrieval, and return of materials. The Documents Unit services the government document serial collection (government monographic documents are in the general collection). The Collection Maintenance Unit is responsible for general stack maintenance, shifting, gapping, shelf reading, and related functions.

The change in name to Circulation and Control Section describes more accurately the major functions of the section and recognizes collection maintenance and control as significant programs. The expansion of the limited concept of "loan" to "circulation" reflects the broader responsibility of interlibrary loan, in-house reader service, and circulation of materials to NLM staff.

Below is a chart of RSD's new organizational alignment:

Reference Services Division



Reference Section Head Named

Phyllis S. Mirsky has been named to head the Reference Section within NLM's Reference Services Division. Mrs. Mirsky, who will assume her new duties in late March, was formerly Associate Director of the Pacific Southwest Regional Medical Library Service (PSRMLS) at UCLA. In her new position at NLM she succeeds Edith Blair, who retired last fall.

Mrs. Mirsky, who received her B.S. in Social Welfare from Ohio State University in 1962, received her A.M.L.S. from the University of Michigan in 1965. She joined the staff of UCLA's Biomedical Library as a reference librarian. Since 1969 she has been active in PSRMLS, becoming Associate Director of Region XI's RML program in 1973.

A member of the Medical Library Association's Board of Directors, she has been active in MLA and other professional organizations. She has also taught and published in the area of health sciences librarianship.

Audiovisual Catalogs

1978 AV Annual

The *National Library of Medicine Audiovisuals Catalog, 1978,* may now be ordered from the Superintendent of Documents (Government Printing Office, Washington, D.C. 20402). Price: $11 ($13.75 foreign). Order Number: HE 20.360914: 978/4. Note: all paid subscriptions for the *NLM Audiovisuals Catalog* (1978 quarterly issues) include this annual cumulation automatically in lieu of a fourth quarterly; all *NLM Current Catalog* subscribers, who received the first three quarterly issues for 1978 without charge from NLM, will have to purchase the annual from the Superintendent of Documents.

The 1978 *NLM Audiovisuals Catalog* annual is a casebound cumulation (with subject, name/title, and procurement source sections) of AV materials cataloged by NLM in 1978. The *Catalog* is derived from AVLINE—the Library's computerized data base of information on AV items used in health sciences education at the college level and for the continuing education of practitioners.

The 1978 annual does not supersede previous AV catalogs, which are still available from the Superintendent of Documents. These are: *NLM Audiovisuals Catalog, 1977* (Price: $10; S/N 017-052-00192-2) and *NLM AVLINE Catalog, 1975-1976* ($5; S/N 017-052-00183-3).

1979 AV Quarterlies

The Superintendent of Documents reports a subscription list of over 700 within the first year of publication of the *NLM Audiovisuals Catalog* (quarterly). To place a subscription for the 1979 issues (3 quarterlies, plus annual cumulation), send your order to the Superintendent of Documents with payment of $18 ($22.50 foreign). For more information and a sample issue, send a self-addressed mailing label to: Office of Inquiries (AV), National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20014.

Report on Sharing Instructional Materials in Veterinary Medicine

A report discussing the factors which influence the "shareability" of audiovisual materials in the field of veterinary medicine has recently been published. Titled *A Model for Producing and Sharing Instructional Materials in Veterinary Medicine,* the report is available from the National Technical Information Service (Springfield, VA 22161) for $4.50 (PB 289-662). The project was supported by the Library's National Medical Audiovisual Center.

The report outlines a protocol for developing and implementing a system to produce, evaluate, and certify prepared instructional lessons. The proposed model is designed to facilitate the development of AV materials to be used in self-instructional modules, lectures, review units, or as diagnostic aids. It is hoped that the report will help reduce instructional costs by providing a mechanism for developing high quality, widely shareable instructional lessons for veterinary medical education. Factors covered include content quality, instructional effectiveness, institutional support, organization, logistics, and personal attitudes toward audiovisuals.

The above report, while dealing with veterinary medicine, could also serve as a model for educators in other disciplines. Educators may also wish to write to the National Medical Audiovisual Center (Atlanta, GA 30333) for information on two related contract reports, both of which concern veterinary medicine but also have cross-disciplinary implications. The first, prepared in 1977 by Billy Ward and Alphonsus Niec, is titled *Content Analysis of Veterinary Pathology.* The second, edited by Alphonsus Niec and published in 1978, is *A Guide to Lesson Preparation for Veterinary Medicine.*

Annual Report Available

Single copies of *NLM Programs and Services, Fiscal Year 1978,* may be obtained without charge from the Library's Office of Inquiries. (Note: copies have been mailed to all institutional members of the Medical Library Association.) Please enclose a self-addressed mailing label with your request and mail to:

Office of Inquiries
ATTN: REPORT 78
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20014

Aviation Medicine ... From the Aeronauts to the Eve of the Astronauts

The most recent in the National Library of Medicine's series of lobby exhibits, to be displayed through May 18th, explores the growth of aviation medicine from its rudimentary beginnings in high altitude physiology (of concern to balloonists and mountain climbers) to the specialized field required by the development of ever faster and higher flying aircraft. The exhibit was developed in cooperation with the Aerospace Medical Association, which holds its 50th anniversary meeting in Washington, D.C. in May 1979.

The exhibit primarily features the literature of aviation medicine from the Library's historical collections, although a number of interesting prints, photographs and artifacts are included as well.

One important historical work displayed is John Jeffries' *Narrative of Two Aerial Voyages*, published in 1786. Dr. Jeffries, a Tory physician from Boston, is generally credited with being the first American to **go** aloft in the interests of scientific research. His *Narrative* documents this 1784 flight (for scientific observations of the atmosphere) as well as history's first overwater flight which he made with balloonist Jean Pierre Blanchard when they crossed the English Channel in 1785. Featured with the *Narrative* is the remarkably preserved clothing worn by the physician-aeronaut on his English Channel crossing (see illustration), and the handwritten contract between Jeffries and Blanchard for the flight. Both items are on loan from the Houghton Library of Harvard University.

Also displayed is Paul Bert's *La Pression Barometrique* 1878, which described the cause of altitude sickness as imperfect aeration of the blood with oxygen due to diminished partial pressure of oxygen.

Other works explore aviation medicine in the 20th century. These include Louis H. Bauer's *Aviation Medicine* (1926), the first extensive work on the subject published in the U.S., and Harry G. Armstrong's text of the same title (1939), which was the first text covering all of the complex and diverse medical problems encountered in modern flight. (Armstrong's work was promptly translated in Germany for the use of **Luftwaffe flight surgeons.) The advanced state** of German aviation medicine at the onset of World War II is seen in the 1939 writings of Drs. Siegfried Ruff, Hubertus Strughold, and Heinz Diringshofen--which were rapidly translated into English.

This picture, taken from the frontispiece of John Jeffries' Narrative of Two Aerial Voyages, shows Jeffries at the time of his historic balloon crossing of the English Channel in 1785. In addition to Dr. Jeffries' Narrative, the Library is displaying the actual clothing worn by him on his flight. Dr. Jeffries, a Tory physician from Boston, is generally credited with being the first American to go aloft in the interest of scientific research. His English Channel crossing, made with balloonist Jean Pierre Blanchard, was the first overwater flight.

The problems of war neuroses and combat fatigue in flight personnel, recognized and seriously addressed for the first time in World War II, are reported in Douglas D. Bond's *The Love and Fear of Flying* (1952). The increasing concern with man-machine relationships in the design, construction, and operation of aircraft is well illustrated in Ross McFarland's *Human Factors in Air Transport Design* (1946) and *Human Factors in Air Transportation* (1953). The early consideration of medical problems associated with space flight are included in Siegfried Gerathewohl's *Principles of Bioastronautics* (1963).

The exhibit will be displayed from February 7 through May 18, 1979. The Library's hours are 8:30 a.m.—9:00 p.m. weekdays, and 8:30-5:00 on Saturdays.

The Midcontinental Regional Medical Library Program

by Elizabeth Petgen*

The governance responsibility for the Midcontinental Regional Medical Library Program (MCRMLP) resides in the directors of the region's nine Resource Libraries which operate as a consortium spanning seven states.* Beautiful settings for Advisory Committee meetings (see picture) are one of the few rewards for the inestimable services rendered by this group. This structure has been operational for the past three years. It evolved from five earlier years of trial and error necessary to determine how decentralized state programs could form a cohesive regional program.

The region's large, far-flung land mass, sparsely populated with health professionals, has influenced this mode of operation (euphemistically termed "states' rights"). The validity of this structure will be tested in the next two years as representatives from other groups and organizations (e.g., the regional group of MLA) are incorporated and participate in the planning and implementation of developing regional programs.

Libraries in the region are currently seeking funding for specific projects through NLM grants. These grant applications address the need for biomedical information support for students and preceptors in AHEC programs, for developing state-wide consortia of health sciences libraries and for providing nonprint materials to health professionals throughout the region.

Document Delivery

The development of regional programs in the next few years should not be hampered by measures to phase in a document delivery charge. As the first of the 11 regions to implement a user charge for interlibrary loans (three years ago), the region's Resource Libraries have had the opportunity to develop various sources of support for this service. Some Resource Libraries obtained state support for loans, others receive support through their individual library budgets, some receive partial state support and charge only a part of the total user charge, and still others charge the full regionally established fee for service. The National Library of Medicine will support interstate loans when the full user charge is implemented in July 1979.

MCRMLP staff and Resource Library Directors attend the Fall 1978 Advisory Committee Meeting in Snowbird, Utah. From left: C. Gadzikowski, R. Dahlen (NLM Program Officer), E. Brodman, D. Schmidt, M. Wannarka, R. Braude, P. Brennen, E. Petgen, P. Mayden, C. Bandy. (Absent were E. Farley and R. Patterson.)

The user response to paying an ILL fee has been remarkable. When a standard notice of the charge was attached to outgoing photocopies, payment for over ninety percent of the loans was received from this first and only billing. The phase-in period for user charges was extended for an additional year beyond that determined in the original plan. In all but one state (Missouri), the ILL service area of a Resource Library is an entire state. With few large medical libraries and a high proportion of small hospitals (only 114 of the 688 hospitals in the seven states have 250 or more beds) large service areas are necessary.

Training

The main emphasis of the regional educational program is on providing basic library skills to the inexperienced library manager in the small health sciences institution. The success of Region VIII programs will not be determined by

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the rise and fall of document delivery or changing Resource Library personnel. It will depend upon "all of us helping each of us" through the sharing of expertise and resources.

Quality educational programs can provide the growth and development needed for self-sufficiency. To this end the MEDLINE/Reference Coordinator is responsible for designing a program to provide a thorough schooling in the use of MeSH and NLM indexes as well as the continuing education of online searchers. The Educational Programs Coordinator develops materials for workshops that emphasize both technical and management skills. Handbooks for beginning health sciences librarians produced in Utah a few years back are being revised and designed as self-instructional materials. The regional AV consultants are responsible for workshops stressing the organization and servicing of nonprint materials.

Other regions have shared their educational materials with Region VIII and exchanges of workshop instructors and cooperative teaching have been in effect for five years. The regional program has provided a series of training sessions to 18 librarians interested in presenting workshops throughout the region. The cadre of teachers is supported by the MCRMLP and the Resource Libraries. Each workshop is evaluated by both the instructors and the students; materials are revised and formatted for presentation to each requesting group.

New programs will be directed toward educating the hospital administrator about library services and the training of librarian-consultants. The response to these educational offerings from the region's health sciences community will guide further development of educational programs, upon which all aspects of regional development depend.

New NLM Literature Searches

The first two searches in the 1979 series of Literature Searches may now be requested from the Library's Reference Section (see below). Literature Searches are printed bibliographies produced through MEDLINE on subjects of current interest. They are available without charge. (A complete list of titles appears in each issue of *Index Medicus* and *Abridged Index Medicus*.) When requesting Literature Searches, please include title and number, enclose a self-addressed gummed label, and mail to:

Literature Search Program
Reference Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20014

LS 79-1 *Low-dose heparin in thromboembolic disease prophylaxis. 1976 through Decemberber 1978. 148 citations.*

LS 79-2 *In vitro fertilization or embryo transfer.* January 1972 through December 1978. 213 citations.

LS 79-3 *Hip or knee replacement in arthritis.* January 1972 through December 1978. 82 citations in English.

NLM Serial Gap List

NLM is soliciting the help of the medical library community in filling gaps in our serial collections. If you can provide any of these items we would be most grateful. Please address them to:

National Library of Medicine
TSD-GAPS
8600 Rockville Pike
Bethesda, MD 20014

Excerpta Medica. Section 48: Gastroenterology 3: 3, 10, 1973; 4: 5, 7-10, 1973; 6: 3, 1974

Journal of the American Institute of Hypnosis 8: 4, 1967; 15: 5, 1974

Journal of the American Registry of Clinical Radiography Technologists 16: 1-4, 1971; 17: 1-4, 1972; 19: 1-4, 1973; 21: 3, 1975

Journal of the History of Medicine and Allied Sciences 29: 2, 1974

Journal of the Illinois Optometric Association 27: 1-6, 1969; 28: 1-3, 5, 1970; 29: 6, 1971; 32: 1-2, 1974; 33: 5, 1975; 35: 2, 1977

Journal of the New Jersey Speech and Hearing Association 1: 1-2, 1962; 2: 2, 3, 1963; 4: 2, 1965; 5: 2, 1966; 6: 2, 1967; 8: 1-2, 1970; 9: 2, 1971; 10: 2, 1972; 11: 2, 1973; 12: 1, 2; 13: 2; 14: 2

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Journal of the Newark Beth Israel Medical Center 24: 3, 4, 1974; 25: 2-4, 1976

Journal of the Pennsylvania Speech and Hearing Association 1: 1-3, 1968; 2: 1-3, 1969; 3: 1-3, 1970; 4: 1-3, 1971; 5: 1-3, 1972; 10: 2, 1977

Journal of the Philadelphia Association of Psychoanalysis 3: 4, 1976

Journal of Podiatric Medicine 51: 11, 12, 1966; 62: 1-4, 12, 1976

Journal of Preventive Dentistry 3: 3, 1976

Journal—Southern California State Dental Association 32: 10, 1964; 33: 1, 4, 7, 9, 12; 34: 6, 9, 10

Kidney 1: 3, 4, 5, 1967; 2: 1-5, 1968; 3: 4, 1970; 5: 5, 1972; 6: 3, 6, 1973; 10: 2, 1977

Laboratory Management July 1974; Feb., June, Aug. 1965

Laboratory Medicine 8: 8, 9, 10, 1977

Lackawanna Medicine 63: 3, 1969; 64: 1-5, 1970; 66: 1-6, 1972; 67: 9, 10, 1973; 68: 8, 1974; 69: 1-3, 5-10, 1975

Lancaster Medicine 46: 3, 1970; 47: 4, 7, 8, 1971; 48: 1-8, 1972; 49: 2, 4, 6, 7, 9, 10, 1973; 50: 1-10, 1974; 51: 1, 3, 1975; 53: 3, 1977

Laser Applications in Medicine and Biology 1: 1971

Lawrence Berkeley Laboratory Research Highlights 1971; 1973

LDA Journal (Louisiana Dental Association) 35: 3, 4; 36: 1, 3, 4

Spectrum (University of Texas Medical School, Dallas) 2: 2-4, 1970; Nos. 1-4, 1971; 1-4, 1972; 1-3, 1973; 1, 2, 4, 1974; 1-3, 1975; 2, 3, 1977

TB Magazine (Northwest Tuberculosis Foundation) 1: 3, 5-9, 12, 1968; 4: 1, 1971; 4: 3, 5, 1972

Time Saver for Health Insurance 1972, 1977

Today's Health 53: 12, 1975

Transactions of the New England Obstetrical and Gynecological Society 22: 1968; 23: 1969

Personnel Notes

Staff Gains

- George Hazard, Chemist, Specialized Information Services
- Mary Fenstermacher, Secretary, Technical Services Division
- Young Rhee, Library Technician, History of Medicine Division

Staff Losses

- Charles Drinkard, Library Technician, Technical Services Division
- Ethel Lauren, Clerk, Bibliographic Services Division
- Eugene Lentz, Computer Systems Analyst, Office of Computer and Communications Services
- Bruce Martel, Contract Specialist, Office of Contract Management
- Kathleen O'Brien, Program Analyst, Office of Administration
- Samuel Sands, Library Technician, Reference Services Division